

# SEQUENCE LISTING

<110> Manoharan, Muthiah

<120> Carbohydrate or 2'-Modified Oligonucleotides Having Alternating Internucleoside Linkages

<130> ISIS3863

<140> 09/349,007

<141> 1999-07-07

<150> 09/115,025

<151> 1998-07-14

<160> 13

<170> PatentIn Ver. 2.1

<210> 1

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<221> modified\_base

<222> (1)..(20)

<223> Alternating phosphodiester/phosphorothioate linkages

<220>

<221> modified\_base

<222> (2)..(20)

<223> 2'-Methoxyethoxy

<220>

<223> Description of Artificial Sequence: Novel Sequence

<400> 1

tctgagtagc agaggagctc

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

20

<221> modified\_base  
 <222> (1)..(20)  
 <223> Alternating phosphodiester/phosphorothioate  
         linkages  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(6)  
 <223> 2'-Methoxyethoxy  
  
 <220>  
 <221> modified\_base  
 <222> (15)..(20)  
 <223> 2'-Methoxyethoxy  
  
 <220>  
 <223> Description of Artificial Sequence: Novel Sequence

<400> 2  
 atgcattctg cccccaagga 20

<210> 3  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> modified\_base  
 <222> (1)..(20)  
 <223> Alternating phosphodiester/phosphorothioate  
         linkages

<220>  
 <221> modified\_base  
 <222> (13)..(20)  
 <223> 2'-Methoxyethoxy  
  
 <220>  
 <223> Description of Artificial Sequence: Novel Sequence

<400> 3  
 gcccaagctg gcatccgtca 20

<210> 4  
 <211> 20  
 <212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Novel Sequence

<400> 4

tctgagtagc agaggagctc

20

<210> 5

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<221> modified\_base

<222> (1)..(20)

<223> All phosphorothioate linkages

<220>

<223> Description of Artificial Sequence: Novel Sequence

<400> 5

tctgagtagc agaggagctc

20

<210> 6

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<221> modified\_base

<222> (1)..(20)

<223> All phosphorothioate linkages

<220>

<221> modified\_base

<222> (1)..(20)

<223> 2'-Methoxyethoxy

<220>

<223> Description of Artificial Sequence: Novel Sequence

<400> 6

tctgagtagc agaggagctc

20

<210> 7  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> (1)..(20)  
<223> 2'-Methoxyethoxy

<220>  
<223> Description of Artificial Sequence: Novel Sequence

<400> 7  
tctgagtagc agaggagctc 20

<210> 8  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> (1)..(20)  
<223> Alternating phosphodiester/phosphorothioate  
linkages

<220>  
<221> modified\_base  
<222> (1)..(20)  
<223> Staggered 2'-Methoxyethoxy

<220>  
<223> Description of Artificial Sequence: Novel Sequence

<400> 8  
tctgagtagc agaggagctc 20

<210> 9  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> (1)..(20)

<223> 2'-Methoxyethoxy

<220>

<221> modified\_base

<222> (2)

<223> c=5-methyl

<220>

<221> modified\_base

<222> (10)

<223> c=5-methyl

<220>

<221> modified\_base

<222> (18)

<223> c=5-methyl

<220>

<221> modified\_base

<222> (20)

<223> c=5-methyl

<220>

<223> Description of Artificial Sequence: Novel Sequence

<400> 9

tctgagtagc agaggagctc

20

<210> 10

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<221> modified\_base

<222> (4)

<223> c=5-methyl

<220>

<221> modified\_base

<222> (6)

<223> c=5-methyl

<220>

<221> modified\_base

<222> (9)

<223> c=5-methyl

<220>  
 <221> modified\_base  
 <222> (13)  
 <223> c=5-methyl  
  
 <220>  
 <223> Description of Artificial Sequence: Novel Sequence

<400> 10  
 gatcgcgtcg gactatgaag

20

<210> 11  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> modified\_base  
 <222> (1)..(20)  
 <223> 2'-Methoxyethoxy  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(20)  
 <223> All phosphorothioate linkages

<220>  
 <221> modified\_base  
 <222> (2)  
 <223> c=5-methyl

<220>  
 <221> modified\_base  
 <222> (10)  
 <223> c=5-methyl

<220>  
 <221> modified\_base  
 <222> (18)  
 <223> c=5-methyl

<220>  
 <221> modified\_base  
 <222> (20)  
 <223> c=5-methyl

<220>  
<223> Description of Artificial Sequence: Novel Sequence

<400> 11  
tctgagtagc agaggagctc

20

<210> 12  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> (4)  
<223> c=5-methyl

<220>  
<221> modified\_base  
<222> (6)  
<223> c=5-methyl

<220>  
<221> modified\_base  
<222> (9)  
<223> c=5-methyl

<220>  
<221> modified\_base  
<222> (13)  
<223> c=5-methyl

<220>  
<223> Description of Artificial Sequence: Novel Sequence

<400> 12  
gacgcgctcg gactatgaag

20

<210> 13  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> (1)..(20)  
<223> 2'-methoxyethoxy

<220>  
<221> modified\_base  
<222> (1)..(20)  
<223> Alternating phosphodiester/phosphorothioate  
linkages

<220>  
<221> modified\_base  
<222> (2)  
<223> c=5-methyl

<220>  
<221> modified\_base  
<222> (10)  
<223> c=5-methyl

<220>  
<221> modified\_base  
<222> (18)  
<223> c=5-methyl

<220>  
<223> Description of Artificial Sequence: Novel Sequence

<400> 13  
tctgagtagc agaggagctc

20